

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in this case.

Listing of Claims:

1-65. (Canceled)

66. (Currently amended) A computerized system for depicting and analyzing a TNF- α ~~(TACE)~~ TACE polypeptide comprising a catalytic domain, the computerized-system comprising:

(a) a computer memory ~~storing structural data obtained from crystallographical analysis of said TACE polypeptide, comprising~~

(i) at least one first-type storage region comprising the x-ray crystallographic coordinate data contained in Table 1 and

(ii) at least one second-type storage region, comprising a representation of characteristics of a plurality of amino acids of said polypeptide, wherein said second-type storage region is logically associated with said first-type storage region to support data processing;

(b) a computer processor coupled to said memory, said processor generating processed output on said data using a set of programmed instructions; wherein said processor

(i) accesses said first-type storage region and said second-type storage region and

(ii) generates image signals for depicting a visual image of said polypeptide in a three-dimensional space that corresponds to said coordinate data,

and wherein said image signals are the processed output;

and

(c) a computer display coupled to said processor, said display rendering ~~multi-~~ three- dimensional images of said polypeptide according to said processed output.

67-69. (Canceled)

70. (Currently amended) A computerized system as set forth in claim 66, wherein said processed output includes signals for depicting a visual image of a ribbon structure of said polypeptide in a ~~multi-~~ three-dimensional space.

71. (Currently amended) A computerized system as set forth in claim 66, wherein said processed output includes signals for depicting a visual image of a solid model representation of said polypeptide in a ~~multi-~~ three-dimensional space.

72. (Currently amended) A computerized system as set forth in claim 66, wherein said processed output includes signals for depicting a visual image of electrostatic surface potential of said polypeptide in a ~~multi-~~ three-dimensional space.

73. (Currently amended) A computerized system as set forth in claim 66, wherein said processed output includes signals for depicting a visual stereo image of said polypeptide in a ~~multi-~~ three-dimensional space.

74. (Currently amended) A computerized system as set forth in claim 66, further comprising (i) a storage device storing data of geometric arrangements of characteristics of a composition other than said polypeptide, wherein said device is coupled to said processor; and (ii) an operator interface for receiving instructions from an operator, wherein said interface are coupled to said processor and wherein said processor generates additional image signals for depicting a visual representation of said composition relative to the visual image of said polypeptide, according to said instructions from the operator interface, said additional image signals being the additional processed output.

75. (Previously presented) A computerized system as set forth in claim 74, wherein said storage device is part of said memory.

76. (Currently amended) A computerized system as set forth in claim ~~67~~ 66, further comprising a plurality of said first-type and said second-type storage regions.